November 17, 2008

TO: ALL HYUNDAI DEALER PRINCIPALS/GENERAL MANAGERS:
ALL HYUNDAI DEALERSHIP SERVICE MANAGERS:
ALL HYUNDAI DEALERSHIP PARTS MANAGERS:
ALL HYUNDAI DEALERSHIP SALES MANAGERS:

SUBJECT: **Campaign 083 – 2006 – 2008 Sonata – Occupant Classification System (OCS) Reprogramming – Inspection Procedure Revision**

Hyundai Motor America is conducting a Customer Notification Occupant Classification System (OCS) Reprogramming campaign on certain 2006 – 2008 Model Year Sonatas.

THIS NOTICE HAS BEEN SENT TO YOU BECAUSE THE INSTRUCTIONS RELATING TO THIS RECALL HAVE BEEN REVISED.

This campaign is to be performed on an individual customer basis. It is not necessary to reprogram every vehicle's OCS. The campaign should be conducted upon customer request. If a customer is uncertain about whether the campaign is necessary, please follow the procedures in TSB 08-01-006-1. Please inform Hyundai through your DPSM of any customers previously told that the campaign was unnecessary based on the prior instructions.

Because not every vehicle will receive OCS reprogramming, vehicles eligible for this Campaign ARE NOT identified as having an open Campaign 083 on Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS. The "Warranty Claim History" portion of the "Warranty Vehicle Information" screen for each vehicle will reveal whether a particular vehicle has been reprogrammed as part of this campaign by identifying "OCC. CLASSIFICATION SYS REPRG 08-01-006" in the Operation Description column.

The Dealer Letter and Technical Service Bulletin (TSB) #08-01-006-1 containing instructions on the campaign procedure and submission of the campaign claim, will be posted on Hyundai's Website on November 17, 2008.

NOTE: The TSB has been revised. The Inspection Procedures on pages 2 and 3 have been revised to clarify the conditions under which reprogramming should be performed. Reprogramming may not be necessary unless a customer indicates that the "PASSENGER AIR BAG OFF" light remains on when small stature adults are seated in the right front passenger position or if the customer requests that the OCS be reprogrammed. Please have the seat sent to be reprogrammed at the Hyundai Warranty Technical Center to ensure that the customer is satisfied.

It is IMPORTANT TO SUBMIT A CAMPAIGN CLAIM FOR EACH VEHICLE SERVICED so your dealership can be compensated for your work and Hyundai can maintain accurate records of campaign completions.

LEGAL LIABILITY NOTICE: You are required to keep confidential any and all information and documents provided to you by Hyundai Motor America in the conduct of carrying out work for this campaign. Hyundai Motor America dealers may use owner information provided for the campaign only for the purpose of conducting and performing this campaign, and for no other purpose.

Hyundai appreciates your cooperation and support. Questions may be directed to your District Parts and Service Manager or Warranty HELPREP line at 1-877-446-2922.

HYUNDAI MOTOR AMERICA

HYUNDAI Technical Service Bulletin

Group	Number	Date	Model
BODY ELECTRICAL	08-01-006-1	NOVEMBER, 2008	2006-2008 SONATA

Subject

OCCUPANT CLASSIFICATION SYSTEM (OCS) REPROGRAMMING (CAMPAIGN 083) INSPECTION PROCEDURE REVISION

CIRCULATE TO:	[ ] GENERAL MANAGER	[X] PARTS MANAGER	[X] TECHNICIAN
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[X] WARRANTY MGR	[ ] SALES MANAGER

IMPORTANT: THIS CAMPAIGN IS TO BE PERFORMED ON AN INDIVIDUAL CUSTOMER BASIS. IT IS NOT NECESSARY TO REPROGRAM EVERY VEHICLE'S OCS. BECAUSE OF THIS, THE WARRANTY VEHICLE INFORMATION SCREEN WILL NOT IDENTIFY AN OPEN OR COMPLETED CAMPAIGN 083 ON ANY VEHICLE. HOWEVER, THE "WARRANTY CLAIM HISTORY" PORTION OF THE "WARRANTY VEHICLE INFORMATION" SCREEN FOR EACH VEHICLE WILL REVEAL WHETHER A PARTICULAR VEHICLE HAS BEEN REPROGRAMMED AS PART OF THIS CAMPAIGN BY IDENTIFYING "OCC. CLASSIFICATION SYS REPRG 08-01-006-01" IN THE OPERATION DESCRIPTION COLUMN.

IMPORTANT: INSPECTION PROCEDURES ON PAGES 5 AND 6 HAVE BEEN REVISED TO CLARIFY THE CONDITIONS UNDER WHICH REPROGRAMMING SHOULD BE PERFORMED.

SERVICE MANAGER:

Please review entire TSB with all Service Advisors, Technicians and Warranty Administrators.

DESCRIPTION:

The Occupant Classification System (OCS) "PASSENGER AIR BAG OFF" indicator light may not turn off when some smaller stature adults are seated in the right front passenger seat of some 2006, 2007 and 2008 model year Sonata vehicles. This condition occurs in some seating positions, but should not occur when a passenger is properly seated.

On AN INDIVIDUAL CUSTOMER BASIS, this OCS reprogramming procedure must be performed if the "PASSENGER AIR BAG OFF" indicator light remains on when small stature adults are seated in the right front passenger position or if the customer has requested that it be performed.

NOTE: THE FOLLOWING EVALUATION MAY BE CONDUCTED TO DETERMINE WHETHER THE REPROGRAMMING IS NECESSARY. EVALUATIONS SHOULD BE MADE WITH THE PASSENGER WHO EXPERIENCES THIS CONDITION.

	INDICATOR LIGHT

VEHICLES AFFECTED:

- Model: Model years 2006-2008 Sonata vehicles.

GENERAL INFORMATION:

- The OCS is designed to detect when the right front passenger seat is occupied by a child restraint system or a child so the air bag for that seat can be disabled. The OCS is also designed to detect when the right front passenger seat is occupied by an adult of sufficient stature to make potential air bag deployment appropriate.
- When an adult passenger is detected, the passenger air bag and passenger seat belt pretensioner circuitry is enabled and the "PASSENGER AIR BAG OFF" indicator light is turned off (not illuminated). If an adult passenger is not detected, or when a child restraint system or child is detected, the passenger air bag and passenger seat belt pretensioner circuitry is disabled and the "PASSENGER AIR BAG OFF" indicator light is turned on (illuminated).
- The OCS operates by evaluating a pressure pattern applied to the seat cushion to detect the presence of an adult occupant. The OCS operates most effectively when the right front passenger is properly seated (sitting upright with the seat back in an upright position, centered on the seat cushion, with legs comfortably extended along the seat surface). Both weight and seating position are necessary to create the seating pressure that indicates the presence of an adult occupant. If the OCS pressure pattern indicates the seat is occupied by someone of light weight, or the passenger is out of position, or is taking their

weight off of the seat for a period of time, the OCS system may disable the airbag and illuminate the "PASSENGER AIR BAG OFF" indicator light.

- The OCS light may also turn on for tall and light weight adults when their feet are pulled to a position on the floor close to the seat cushion, raising their legs off the front of the cushion.

WARNING: Aftermarket equipment, such as seat covers, must not be used because they can affect OCS system operation.

NOTE: The operation of the driver air bag, driver seat belt pretensioner, driver and passenger side impact air bags, and curtain air bags are not affected by the OCS.

INSPECTION PROCEDURE:

1. The customer contacts the dealership regarding the "PASSENGER AIR BAG OFF" indicator light operation.
2. If the customer indicates that the "PASSENGER AIR BAG OFF" light has been illuminating and requests that the reprogramming be conducted, the campaign should be performed.
3. If the customer would like an evaluation before deciding whether to have the reprogramming conducted, request that the customer bring the car to the dealership with the passenger who has experienced the "PASSENGER AIR BAG OFF" indicator light condition for evaluation.
4. The Service Advisor should verify whether the passenger is sitting correctly, and inform the customer on the most effective seating position, as per the following steps:

    a. Ask the passenger to sit in his or her normal position in the right front seat. Turn on the ignition and observe the "PASSENGER AIR BAG OFF" indicator light.

    b. If the "PASSENGER AIR BAG OFF" indicator light does not turn off, please ask the right front passenger to sit upright, not to lean or recline, and to comfortably extend their legs to make sure their legs contact the front portion of the seat cushion.

    c. If the "PASSENGER AIR BAG OFF" indicator light turns off when the occupant is properly seated, confirm that the customer and occupant understand the necessity of sitting in that position and will sit in that

position. If the customer and occupant confirm that they understand and will sit in that position, then the vehicle is NOT required to be reprogrammed.

However, **if the customer requests that the OCS be reprogrammed**, please indicate the reason for requesting the reprogramming on the repair order and follow the SERVICE PROCEDURE beginning on the next page to ensure that the customer is satisfied.

d. If sitting in the proper position does not cause the "PASSENGER AIR BAG OFF" indicator light to turn off, the OCS must be reprogrammed to help detect the presence of a properly seated small stature adult. On the repair order, indicate that the "PASSENGER AIR BAG OFF" indicator light does not turn off and follow the SERVICE PROCEDURE beginning below on this page.

NOTE: Every right front passenger evaluation should be performed as follows:
(1) The passenger must sit in the right front seat,
(2) Turn on the ignition,
(3) Check if the "PASSENGER AIR BAG OFF" indicator light is illuminated after 30 seconds. A few seconds delay for the OCS "PASSENGER AIR BAG OFF" indicator light to turn off just after turning on the ignition does not indicate a problem.

NOTE: If a customer requests service for an instrument cluster "AIR BAG" warning lamp illumination condition, use a scan tool or GDS to determine if an OCS-related code (B1448, B1449, or B1450) is present. If the code(s) is present, indicate the code on the repair order, and follow the service procedure below.

NOTE: If the code(s) is not an OCS-related code, repair the condition(s) under normal warranty.

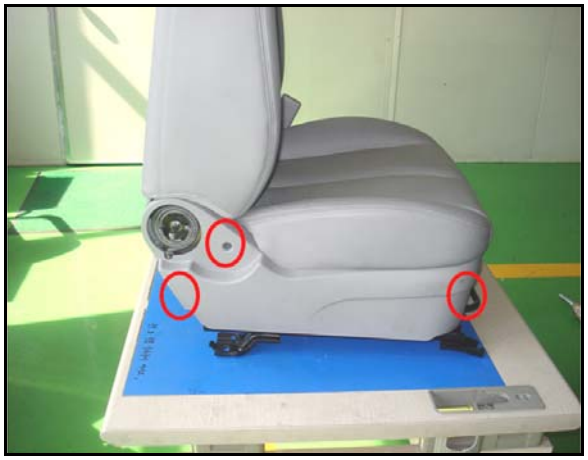
SERVICE PROCEDURE:

1. Record the radio station presets, and disconnect the vehicle negative battery cable from the battery.

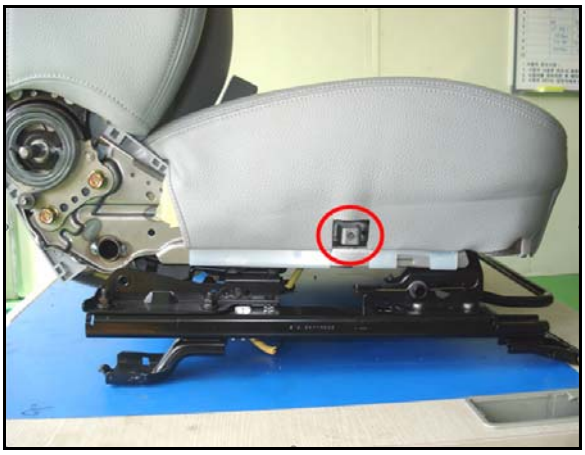
2. Disconnect all connectors from under the seat and remove the front passenger seat assembly.

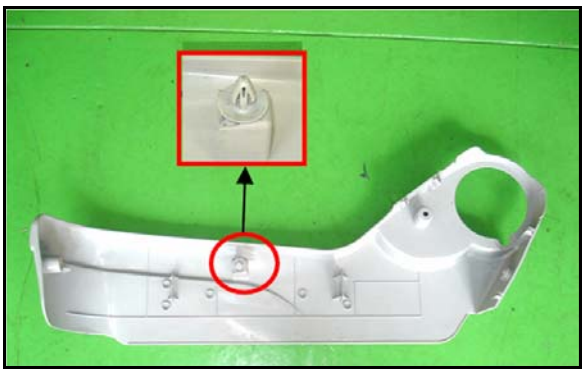
3. Remove the recliner lever by removing the metal clip.

4. Remove the plastic side outer cover by unfastening 3 mounting screws.



NOTE: When removing the side outer cover, verify the clip (p/n 88173-3K000) is installed on the outer cover. If the clip remains lodged on the seat bracket, remove it and install it onto the side outer cover.





5. Remove the seat buckle cover by unfastening the screw.

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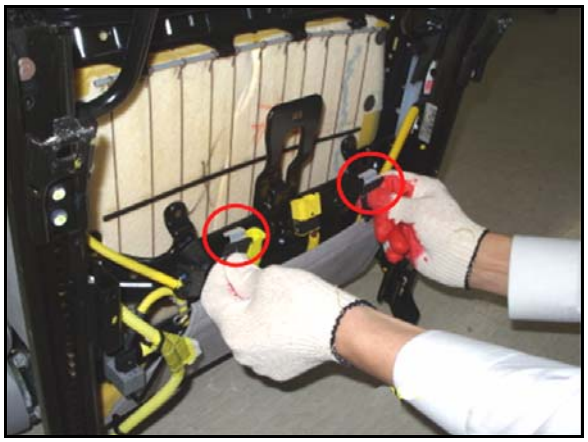
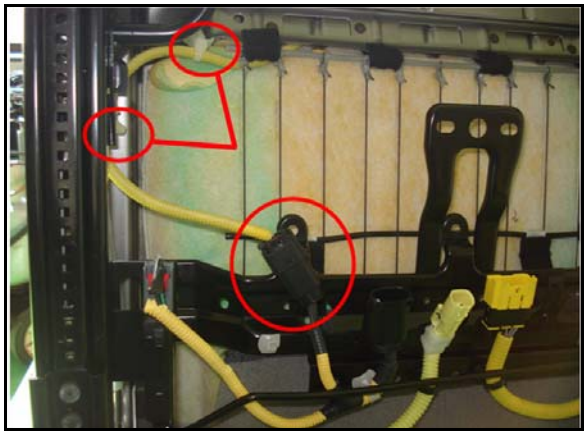
6. Unfasten the seat buckle mounting bolt to get access to the seat cushion covering fixing hook. Tightening torque: 39.2~53.9 N.m (4.0~5.5 kgf.m, 28.9~39.8 lb.ft).

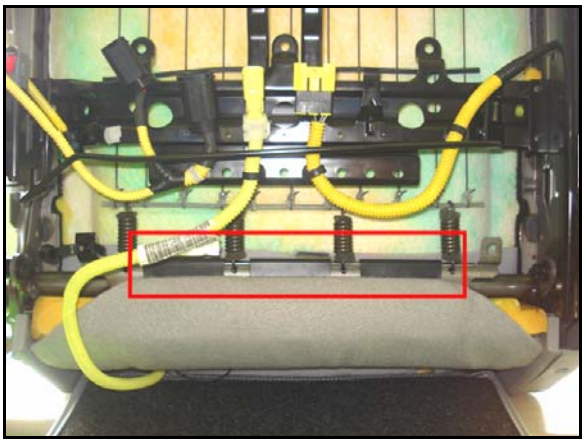
7. Raise the front seat and disengage the 2 seat covering fixing hooks on the bottom side of the seat.



8. Disconnect the OCS wiring connector and disengage the 2 wiring clips.



9. Disengage the front seat covering fixing clips.



10. Disengage the right and left seat covering fixing clips.

11. Remove the seat cushion assembly from the seat assembly.

NOTE: Document any pre-existing marks or damage on the cushion in the repair order.

12. Completely wrap the seat cushion in clean plastic or paper. Tape the covering so it cannot come loose during shipping.

NOTE: Do not send the entire seat assembly. Send only the seat cushion assembly.

13. Tape an envelope with a copy of the repair order and the dealer shipping account number to the seat cushion assembly wrapping. Also, include a return shipping label.

14. Select a suitable sturdy box with a dimension size of 22” L x 22” W x 6" H. Use of a larger box may result in additional dimension weight charges, Large Package surcharge and Fuel surcharge.

15. Send the seat cushion assembly to Hyundai's Warranty Technical Center (WTC) address listed below via FedEx Overnight. Use your FedEx Dealer Discount Program account. Using another carrier or shipper number may result in shipping charges that exceed the freight reimbursed by HMA.

NOTE: Both OUTBOUND and RETURN shipment of the seat cushion should be prepaid (bill sender) by the dealer. Place the <u>Return Shipping Label</u> with the repair order. See the following page of this TSB for freight reimbursement procedure.

Hyundai Warranty Technical Center
Attention: OCS
18335 Mount Langley, Unit A
Fountain Valley, CA 92708

NOTE: Do not include any other WTC parts with the OCS shipment.

16. Fax a copy of the repair order to **(714) 378-5179.** The repair order should include a contact name, phone number, the delivery carrier’s name and tracking number.

NOTE: After the OCS has been reprogrammed, the seat cushion will be returned to your dealership so it may be reinstalled in the customer’s vehicle.

17. When the reprogrammed seat cushion arrives, verify that you have received the correct seat cushion assembly

18. Reinstall the cushion assembly in reverse order of removal.

19. Reinstall the seat assembly and connect all connectors and wire tie clips.

Tightening torque for seat mounting bolts:
35~55 Nm (3.5-5.5 kgf.cm, 25~40 lb.ft)

20. Reconnect the battery cable, reprogram the radio stations, reset the clock, and verify no codes were stored in the SRS module.

NOTE: If the cushion is not returned to your dealership within 3 working days after shipping to the WTC, please contact (877) 446-2982 for assistance.

WARRANTY INFORMATION:

OP CODE	OPERATION	OP TIME
81B012R0	Evaluation, seat cushion removed, packaged, shipped, unpackaged, and reinstalled.	0.6 M/H

CAMPAIGN CLAIM NOTES - PLEASE READ IN ITS ENTIRETY:

NOTE 1: Submit claim using the Campaign Claim Entry Screen.

NOTE 2: Rental amount of 4 days, X $35.00 = $140.00, will be automatically added to the campaign claim.

NOTE 3: Freight amount will be automatically added, based upon the dealer's region as shown below.

REGION	OVERNIGHT FREIGHT
Central Region	$148.00
Eastern Region	$154.00
California Region	$128.00
South Central Region	$144.00
Southern Region	$154.00
Western Region	$138.00